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ABSTRACT

Crude shale oil from in situ retorting of Wyoming oil shale by the underground combustion method was hydrocracked over a nickel-molybdena catalyst in a single-pass operation at 800°F, 1,500 psig pressure, and 0.5 volume of oil per volume of catalyst per hour. The liquid product was fractionally distilled into naphtha and heavier oil. The fractions distilling above naphtha were collected at 5°F intervals and nitrogen percentages were determined on these. The distribution of nitrogen in 54 distillate fractions is reported.